

## Active Recombinant Mouse Chemokine (C-C motif) Ligand 9

**Cat. No.** Ccl9-403M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Ccl9 protein was expressed in E. coli. Gln22-Gln122.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Protein Length</b>	22-122 a.a.
<b>Description</b>	Mouse Ccl9 (also MIP1 $\gamma$ and MRP2) is an 11 kDa, secreted, monomeric polypeptide that belongs to the $\beta$ (or CC) intercrine family of chemokines. Based on its activity and amino acid (aa) sequence, it is further classified as a member of the NC6 or six cysteine containing CC subfamily of chemokines.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in Acetonitrile and TAF with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Gln22
<b>Molecular Weight</b>	11.5 kDa
<b>Activity</b>	Measured by its ability to chemoattract THP-1 human acute monocytic leukemia cells. The ED <sub>50</sub> for this effect is typically 0.2-0.6 $\mu$ g/mL. Measured by its ability to chemoattract human CCR1 transfected BaF3 mouse pro-B cells. The ED <sub>50</sub> for this effect is typically 0.002-0.01 $\mu$ g/mL.

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<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 25µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	Ccl9 chemokine (C-C motif) ligand 9 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Ccl9
<b>Synonyms</b>	Ccl9; chemokine(C-C motif) ligand 9; CCF18; MRP-2; Scya9; Scya10; OTTMUSP0000000947; MIP-1 gamma; C-C motif chemokine 9; small inducible cytokine A9; small inducible cytokine A10; macrophage inflammatory protein 1-gamma; macrophage inflammatory protein-related protein 2; MIP-1-gamma; Mrp2; Small-inducible cytokine A9
<b>Gene ID</b>	20308
<b>mRNA Refseq</b>	NM_011338
<b>Protein Refseq</b>	NP_035468
<b>UniProt ID</b>	P51670

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<b>Chromosome Location</b>	11
<b>Pathway</b>	Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; GPCR ligand binding; GPCR downstream signaling; G alpha (i) signaling events; G alpha (q) signaling events; Peptide ligand-binding receptors; Signal Transduction; Signaling by GPCR
<b>Function</b>	chemokine activity; cytokine activity

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